

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A polyurethane film comprising a film prepared from a polyurethane dispersion, the dispersion being prepared from a non-ionic polyurethane prepolymer, and the prepolymer being prepared from a polyurethane prepolymer formulation including ~~a MDI diisocyanate, the MDI having a P,P'-isomer content from 99 to 90 percent~~ a diisocyanate and an active hydrogen containing material wherein the active hydrogen-containing material is a mixture of a high molecular weight diol having a molecular weight of 1,000 to 4,000 and a low molecular weight diol having a molecular weight of 60 to 750, wherein:

the dispersion is formed in a two or more step process wherein,
 - (1) in a first step the prepolymer is formed and, in a subsequent step,
 - (2) an aqueous dispersion of the prepolymer is formed, in the presence of an anionic surfactant, both steps occurring in the absence of an organic solvent,
wherein the diisocyanate is MDI having a P,P'-isomer content of from 90 to 99 percent.
2. (Cancelled).
3. (Cancelled).
4. (Cancelled).
5. (Previously presented) The polyurethane film according to Claim 29 wherein the anionic surfactant is sodium dodecyl benzene sulfonate.
6. (Cancelled).
7. (Original) The polyurethane film according to Claim 1 wherein the dispersion has a solids content of 5 to 60 weight percent.

8. (Original) The film of Claim 1, wherein the film has a shape of a glove, a condom, an angioplasty balloon, a medical bag or a catheter.
9. (Currently amended) A process for preparing a polyurethane film comprising the steps of:
 - (a) preparing a non-ionic polyurethane prepolymer;
 - (b) dispersing the prepolymer in water; and then
 - (c) applying the dispersion to a substrate as a film;wherein the prepolymer is prepared from a polyurethane prepolymer formulation including a MDI diisocyanate, ~~the MDI having a P,P' isomer content from 99 to 90 percent~~ and an active hydrogen containing material, wherein the active hydrogen-containing material is a mixture of high molecular weight diol having a molecular weight of 1000 to 4000 and a low molecular weight diol having a molecular weight of 60 to 750; and
wherein steps (a) and (b) both occur in the absence of an organic solvent; and
wherein the diisocyanate is an MDI having a P,P'-isomer content of from 90 to 99 percent.
10. (Cancelled).
11. (Original) The process according to Claim 9 wherein step (c) comprises dipping, thermal coagulation, casting, electrodeposition, or a combination thereof.
12. (Original) The process of Claim 9 wherein the shape of the substrate is such that the resulting film is in the shape of a glove, condom, angioplasty balloon, medical bag, medical tubing, or catheter.
13. (Cancelled).
14. (Cancelled).

15. (Cancelled).

16. (Cancelled).

17. (Cancelled).

18. (Cancelled).

19. (Cancelled).

20. (Cancelled).

21. (Cancelled).

22. (Cancelled).

23. (Cancelled).

24. (Currently amended) An aqueous polyurethane dispersion useful in preparing polyurethane films comprising the product of dispersing in water a nonionic polyurethane prepolymer prepared from a prepolymer formulation including ~~an MDI a~~ diisocyanate

~~the MDI having a P,P' isomer content from 99 to 90 percent~~ and an active hydrogen-containing material wherein the active hydrogen-containing material is a mixture of a high molecular weight diol having a molecular weight of 1000 to 4000 and a low molecular weight diol having a molecular weight of 60 to 750, wherein the dispersion is formed in a two or more step process wherein:

- (1) in a first step the prepolymer is formed and, in a subsequent step,
- (2) an aqueous dispersion of the prepolymer is formed in the presence of an anionic surfactant,

wherein both steps (1) and (2) occur in the absence of an organic solvent; and,
wherein the diisocyanate is MDI having a P,P'-isomer content of from 90 to 99
percent.

25. (Previously presented) The dispersion of Claim 24, wherein the dispersion has a solids content of from about 5 to about 60 weight percent.
26. (Cancelled).
27. (Previously presented) The polyurethane film of Claim 1, wherein the P,P'-isomer content of the MDI diisocyanate is from about 98 to about 92 percent.
28. (Currently amended) The polyurethane film of Claim 27, wherein the ~~P,P~~ P,P'-isomer content of the MDI diisocyanate is about 94 percent.
29. (Currently amended) The polyurethane film of Claim 27, wherein the ~~P,P~~ P,P'-isomer content of the MDI diisocyanate is about 98 percent.
30. (Previously presented) The polyurethane film of Claim 1, wherein the aqueous dispersion of the prepolymer is formed in the presence of an anionic surfactant.
31. (Cancelled).
32. (Previously presented) The polyurethane film of Claim 1, wherein the particle size of the particulates in the dispersion is from 0.9 microns to about 0.05 microns.
33. (Previously presented) The process of Claim 9, wherein the prepolymer is dispersed in water in the presence of an anionic surfactant.
34. (Previously presented) The process of Claim 9, wherein the particle size of the particulates in the dispersion being from 0.9 microns to about 0.05 microns.

35. (Cancelled).
36. (Currently Amended) The aqueous polyurethane dispersion of Claim 24, wherein the prepolymer formulation further ~~comprising~~ comprises a mixture of diols.
37. (Previously presented) The aqueous polyurethane dispersion of Claim 24, wherein the aqueous dispersion of the prepolymer is formed in the presence of an anionic surfactant.
38. (Cancelled).
39. (Previously presented) The aqueous polyurethane dispersion of Claim 24, wherein the P,P'-isomer content of the MDI diisocyanate is between about 98 to about 92 percent.
40. (Currently amended) The aqueous polyurethane dispersion of Claim ~~38~~ 39, wherein the ~~P,P~~ P,P'-isomer content of the MDI diisocyanate is about 94 percent.
41. (Currently amended) The aqueous polyurethane dispersion of Claim ~~38~~ 39, wherein the ~~P,P~~ P,P'-isomer content of the MDI diisocyanate is about 98 percent.